Remanufacturing the Samsung CLP-610/660 Laser Cartridge

Samsung CLP-610ND Colour Laser Printer Specifications

- A4 Colour Laser Printer
- Up to 20ppm print speed
- Up to 2,400 x 600 dpi print resoultion
- 1st page out in less than 20 seconds
- 128MB memory (Max 384MB)
- 360MHz Processor
- Automatic Duplex printing
- 250 sheet Cassette, 100 sheet multi-purpose tray
- Hi-Speed USB 2.0, Ethernet 10/100Base TX
- PCL 6 & SPL-CI emulation

Samsung CLP-660ND Colour Laser Printer Specifications

- A4 Colour Laser Printer
- Up to 24ppm print speed
- 2,400 x 600 dpi effective output
- First page out in 14 seconds
- 128MB memory (Max 640MB)
- 533MHz Processor
- Automatic Duplex printing
- 250 sheet Cassette, 100 sheet multi-purpose tray
- USB 2.0 & network
- PostScipt 3, PCL 6, SPL-C emulation

Cartridge Specifications:

High Yield

CLP-660ND Black High Yield Toner Cartridge (5,500 pages) CLP-K660B/ELS

CLP-660ND Cyan High Yield Toner Cartridge (5,000 pages) CLP-C660B/ELS

CLP-660ND Magenta High Yield Toner Cartridge (5,000 pages) CLP-M660B/ELS

CLP-660ND Yellow High Yield Toner Cartridge (5,000 pages) CLP-Y660B/ELS

Standard Yield

CLP-660ND Black Toner Cartridge (2,500 pages) CLP-K660A/ELS

CLP-660ND Cyan Toner Cartridge (2,000 pages) CLP-C660A/ELS

CLP-660ND Magenta Toner Cartridge (2,000 pages) CLP-M660A/ELS

CLP-660ND Yellow Toner Cartridge (2,000 pages) CLP-Y660A/ELS

Components

Samsung CLP-660ND Image Transfer Belt (50,000 pages)

CLP-660ND Image Transfer Belt (50,000 pages) CLP-T660B/SEE

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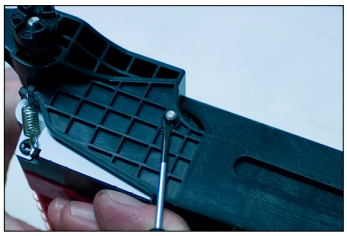
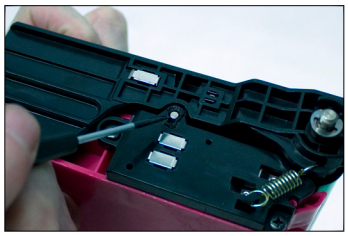
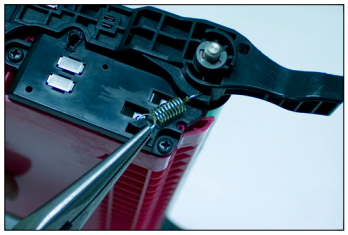
1. First we need to separate the cartridge into two sections – the cartridge halves are held together with two pins and two springs. The pins can be removed by inserting a small flat blade screwdriver under the pins and gently prising out.

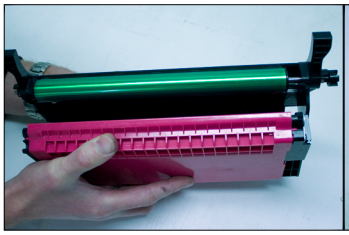


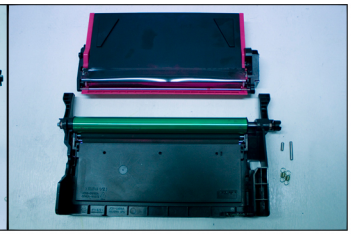


2. The two springs are removed using needle-nose pliers

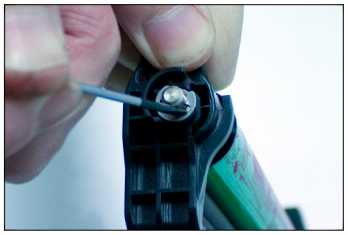


3. Separate the two halves

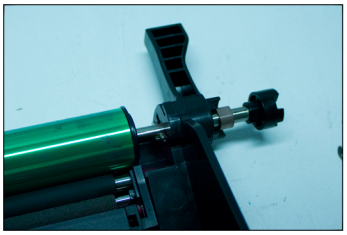


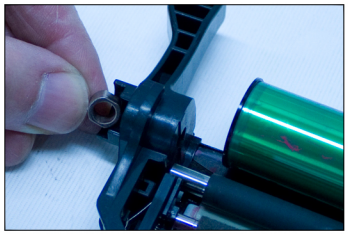


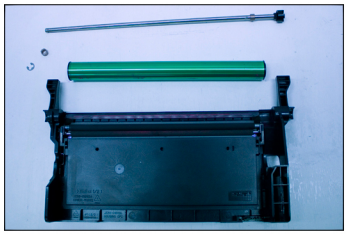
4. Remove the E clip from the drum axle



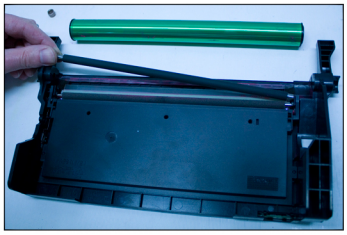
5. Remove the drum axle



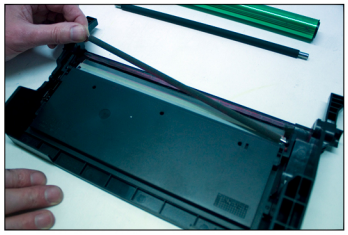




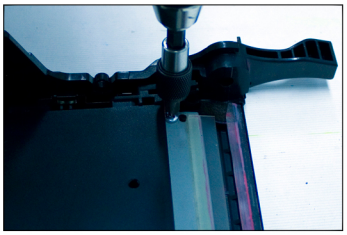
6. Remove the PCR roller



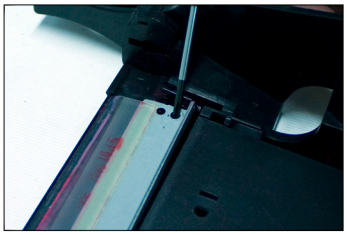
7. Remove the Cleaning Roller (Note* - only the Hi Yield Cartridges contain the cleaner roller)



8. Remove the two screws holding the wiper-blade in position



9. Gently lift out the wiper-blade



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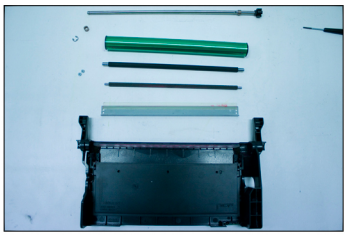
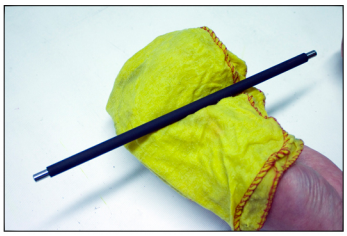
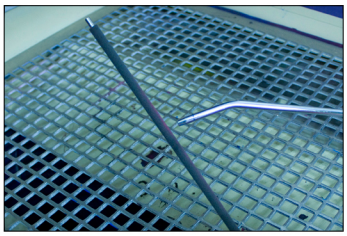
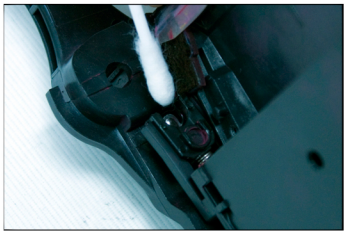
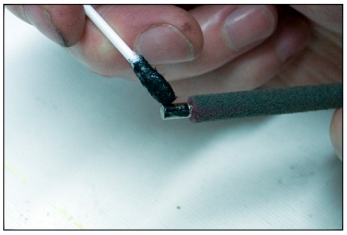
10. Clean and/or replace the components – we cleaned the PCR roller with a soft cotton cloth, and with compressed air gently cleaned the Cleaning roller. (Note* - only the Hi Yield Cartridges contain the cleaner roller)

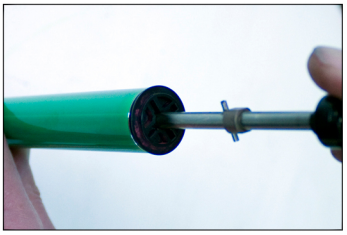
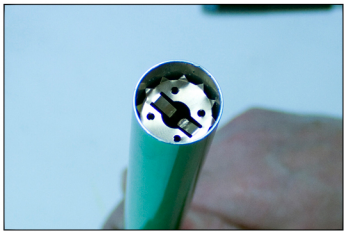
11. Using a Q-Tip clean the contact point at the PCR saddle and apply new contact grease



12. You can also apply a small amount of contact grease to the PCR roller and cleaning roller

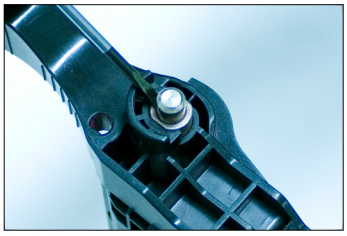


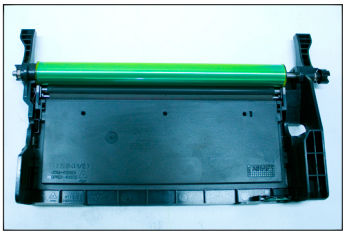
13. It's important to know before replacing the OEM OPC (If you do not intend to use compatible replacement OPC) that the contact point for the drum is located inside the drum tube, this can easily be bent and pushed aside – causing no contact to be made, this results in no image produced. It is essential that you check these contact points are intact first, you can do this by pushing the drum axle back through the OPC drum in the opposite direction, and just gently pushing the contacts back into place. Easier still is to replace the drum for an AQC Group UK compatible replacement.

14. Using Yellow toner apply a light coating to the surface of the OPC drum to act as a padding powder, and insert the drum back into the hopper section.

15. Push the axle right through the drum unit and fit the E clip back.





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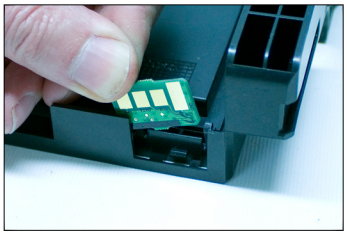
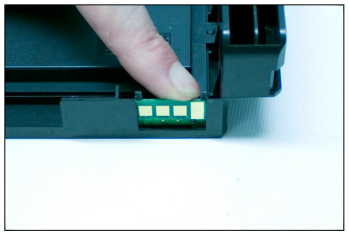
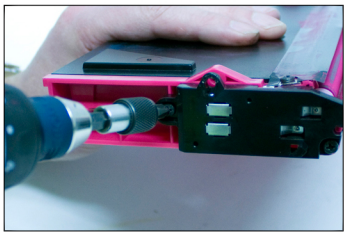
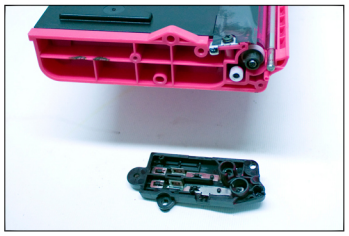
16. Remove and replace the cartridge Chip!



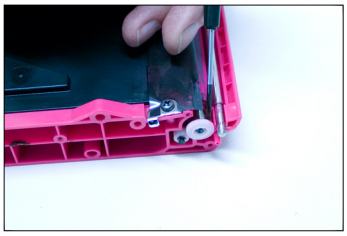


17. Moving onto the toner hopper, remove two screws holding the contact end plate

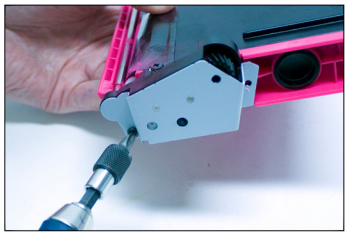




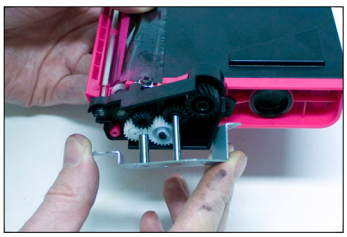
18. Remove the white spacer shim



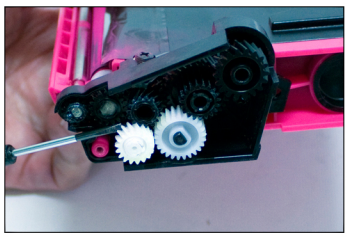
19. On the other side of the toner hopper, remove the two screws holding the gear plate in place.



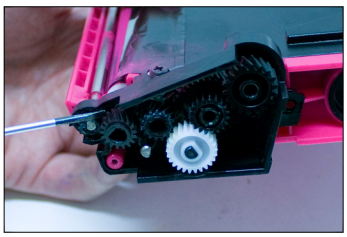
20. Remove the gear plate



21. Remove the smaller white gear



22. Remove the Black DVR gear & metal bar gear



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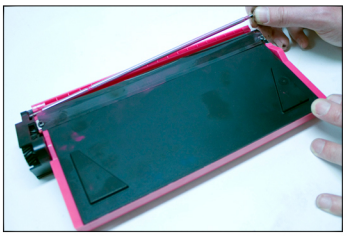
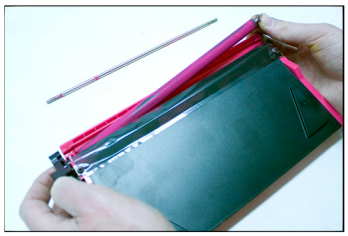
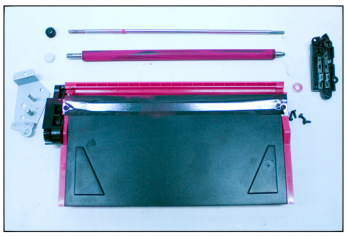
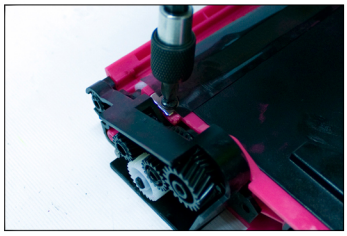
23. Remove the metal bar and gently lift and remove the DVR roller. (Note* - it's advisable to also push with your finger from the gear side as you remove the DVR).

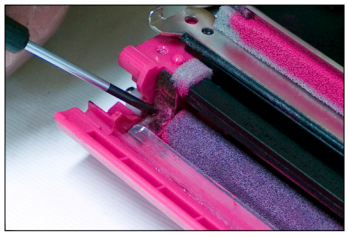
24. Remove the two screws holding the Doctor-Blade in place



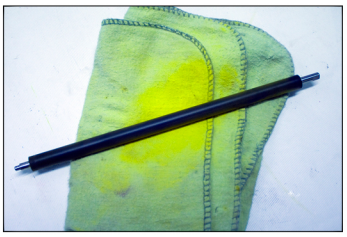
25. Using a small flat-blade screw driver gently lift/prise up the doctor-blade

26. Clean the edge of the doctor-blade where it meets the DVR

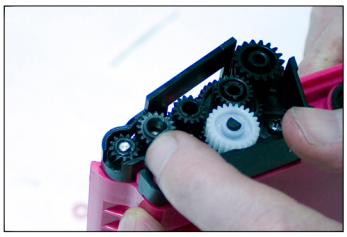
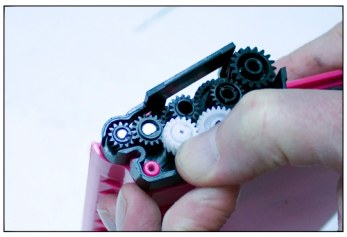
27. Using a small flat blade screw driver ruffle up the end felts



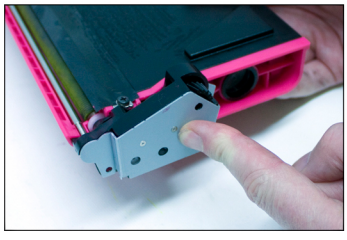
28. Once the DVR has been cleaned/replaced apply Yellow toner to act as lubricant/padding powder and replace back into place



29. Place the gears back into position

30. Place the gear plate back



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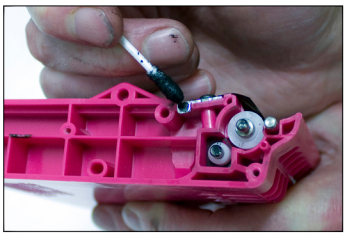
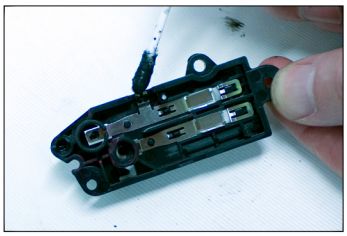
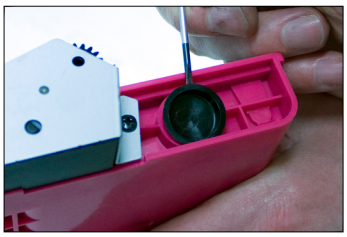
31. On the other side of the cartridge clean the contact points and apply new contact grease

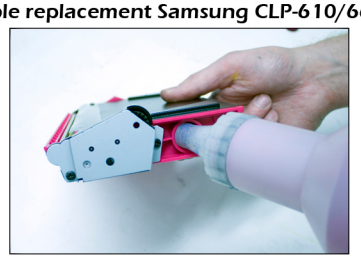




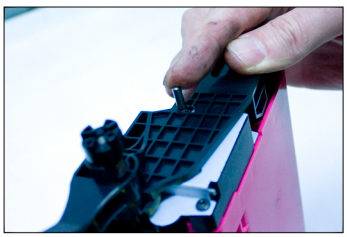
32. Lift out the toner plug



33. Fill the toner hopper with AQC Group UK Ltd compatible replacement Samsung CLP-610/660 toner



34. Fit the two cartridge halves back together and re-insert the two pins and two springs



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